

ARJOHUNTLEIGH
GETINGE GROUP

Maxi Move Scale

Technical Manual



CE

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General Information

Scale Description

The Maxi Move scale makes it possible to weigh patients during a transfer. The load cell is attached to the jib. The scale is comprised in part of a digital load cell, meaning all the analog to digital conversion is performed internally within the load cell. The load cell then sends the information to the main board over a RS-485 bus, in ASCII format. Finally, the information is displayed on the handset.

Verified scale

Each Maxi Move KMC*A* is equipped with a scale that has been *verified*, and whose gravitational code has been set for the specific location where it will be used. The lift has a scale marking label (see Fig.1) on the control tower, above the handset door. This is the official mark for the scale verification.



Fig.1

The verified scale also has its tilt sensor enabled, which means that the display will go blank if the angle of the load cell is greater than 3 degrees (in the horizontal plane). In addition, the verified scale can only be used with the units of measurement set to “kg”.

The scale is sealed by an electronic seal. Within the load cell, there are two electronic counters: a

calibration counter and a *gravity counter*. Each time an operation changes the value of the calibration or of the gravity code, the corresponding counter is automatically incremented, without any possibility of being reset. On the scale marking label, there are actually two labels: a *calibration label* and a *gravity label*. These labels are applied at the factory and/or at the distribution centers and have the same value of the *calibration* and *gravity counters*. If the values of the counter and label don't match, this means that an unauthorized change has been performed to the scale configuration. In that case, the verification becomes void.

If, after the initial distribution to the customer, the following actions need to be performed, the scale must be subsequently verified by an authorized notified body:

- changing the load cell
- removing and replacing the same load cell on the jib
- calibrating the load cell
- changing the gravity code

Note: When performing these operations, carefully note them in the metrological logbook.

Note: When changing the main circuit board or the handset, there's no need to have the scale verified.

An up-to-date list of available notified bodies in Europe can be found at the following address:

List of European Notified Bodies.

(<http://ec.europa.eu/enterprise/newapproach/nando/index.cfm?fuseaction=na.main>)

Under “Directive”, click on 90/384/EEC, Non-Automatic Weighing instruments.

General Information

Non-Verified scale

Each Maxi Move KMC*U* is equipped with a *non-verified scale*. Although the load cell is identical to a verified scale, the verification process is less complex. These scales don't need to be certified by an authorized notified body and don't use the software seal system as do verified scales. Also, the verification and calibration can be carried out by an ARJO technician. The scale marking labels for these units are located on the mast, behind the battery pack (see Fig.2).

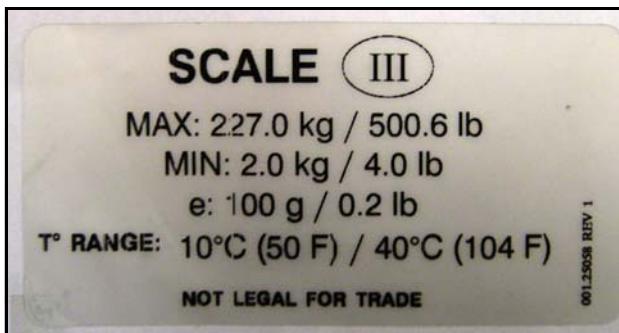


Fig.2

The tilt sensor is disabled for non-verified scales and the units of measurement can be set either to “kg” or “lb”.

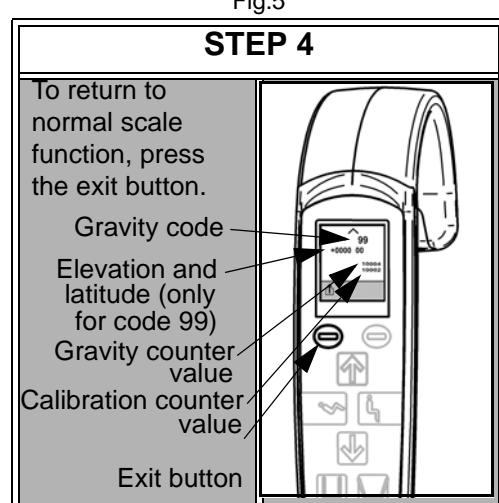
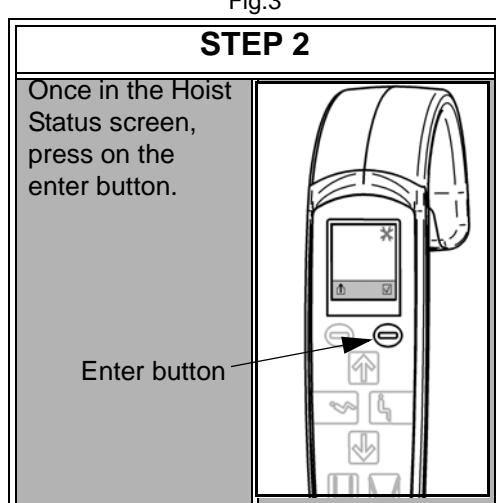
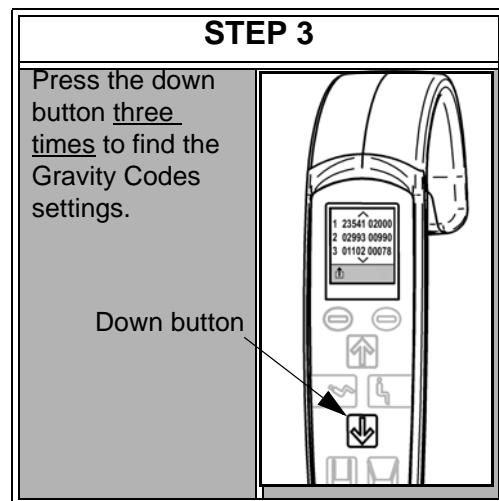
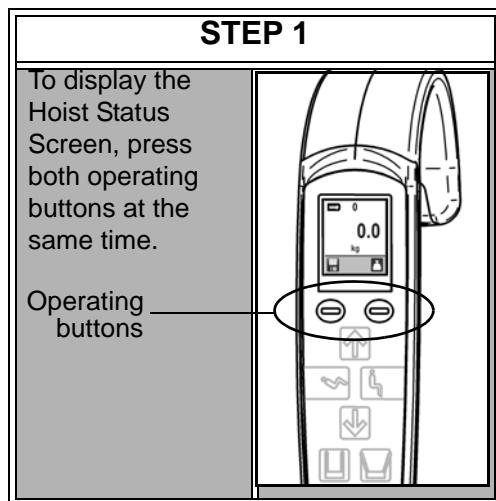
Note: For scale operation instructions, see the scale section in the *Operating and Product Care Instruction* manual for the Maxi Move floor lift.

Service Procedures

SP1-Counter Verification

(Verified Scale Only)

Using the handset, enter the “Gravity Code” menu and look for the *calibration counter value* and the *gravity counter* value.



Compare both values to the ones on the scale marking label. If there is a difference, this means an unauthorized change has been performed on the calibration and/or the gravitational code. The scale is not longer valid and must be verified by a notified body.

A new label must also be applied to match the values stored in the counter within the load cell. Label sheets for the scale may be ordered as spare parts (#001-25061).

Service Procedures

SP2-Gravity Code Change

SP2-Gravity Code Change (Verified scales only)

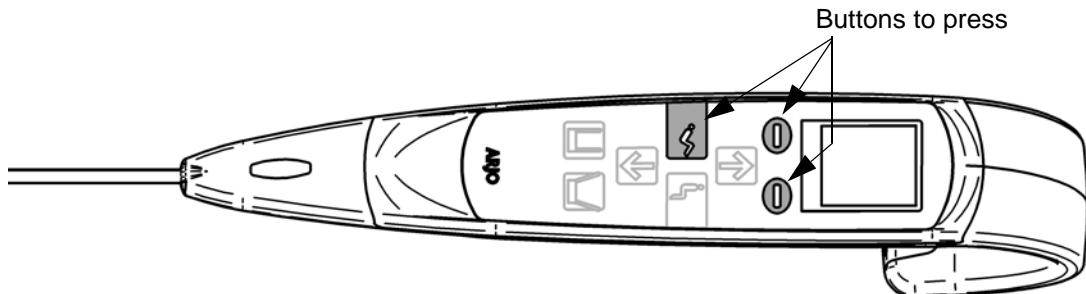
Note: Changing the gravity code will void the certification and the scale will need to be verifying by an authorized notified body before being put back in service.

Changing the Gravity Code

If the scale's gravity code needs to be changed (for example, the lift needs to be moved to a different region or country), follow these instructions:

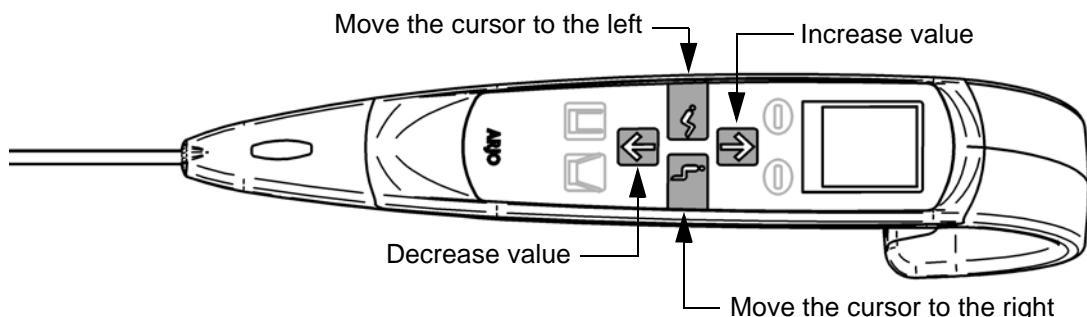
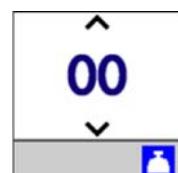
1) Access to the “Gravity Configuration Mode”:

- With the handset, push down simultaneously on both buttons just below the display, as well as the DPS “recline” button (see figure below). While keeping the buttons pressed, turn the unit on by pressing on the main switch and hold the buttons down until a beep is heard.



2) Adjust the gravity code:

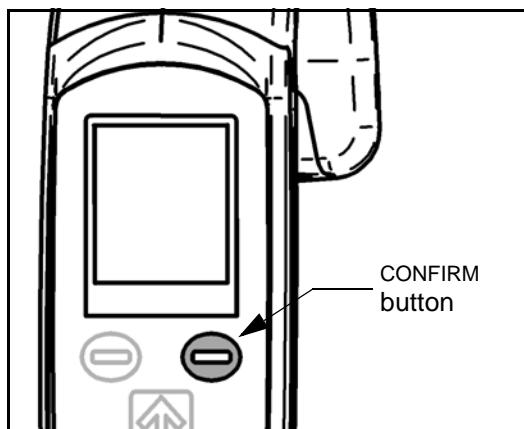
- After 10 seconds, the display will indicate the gravity code with which the unit was initially verified, or the code the unit is presently configured with (e.g. 00).
- Use the list of codes by country found in the gravity adjustment table (page 17) to identify which code to configure the instrument with.
- To modify the displayed code, use the following buttons:



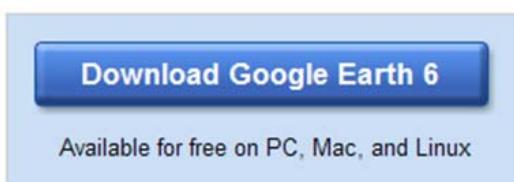
Service Procedures

SP2-Gravity Code Change

- Confirm the selected code with the following button:



- For codes 00-98, the configuration is complete. WAIT 5 SECONDS, and then shut off the instrument.
- Code 99 permits the gravity configuration for a location specified by a known elevation and latitude. When the code list indicates that a code 99 should be used, or a location is undetermined in the gravity adjustment table, use the Google Earth application to determine the latitude and altitude.
- Get on the internet at the following address:
<http://www.google.com/intl/en/earth/download/ge/>
- Locate and click the “Download Google Earth 6” button (or newer version if available).

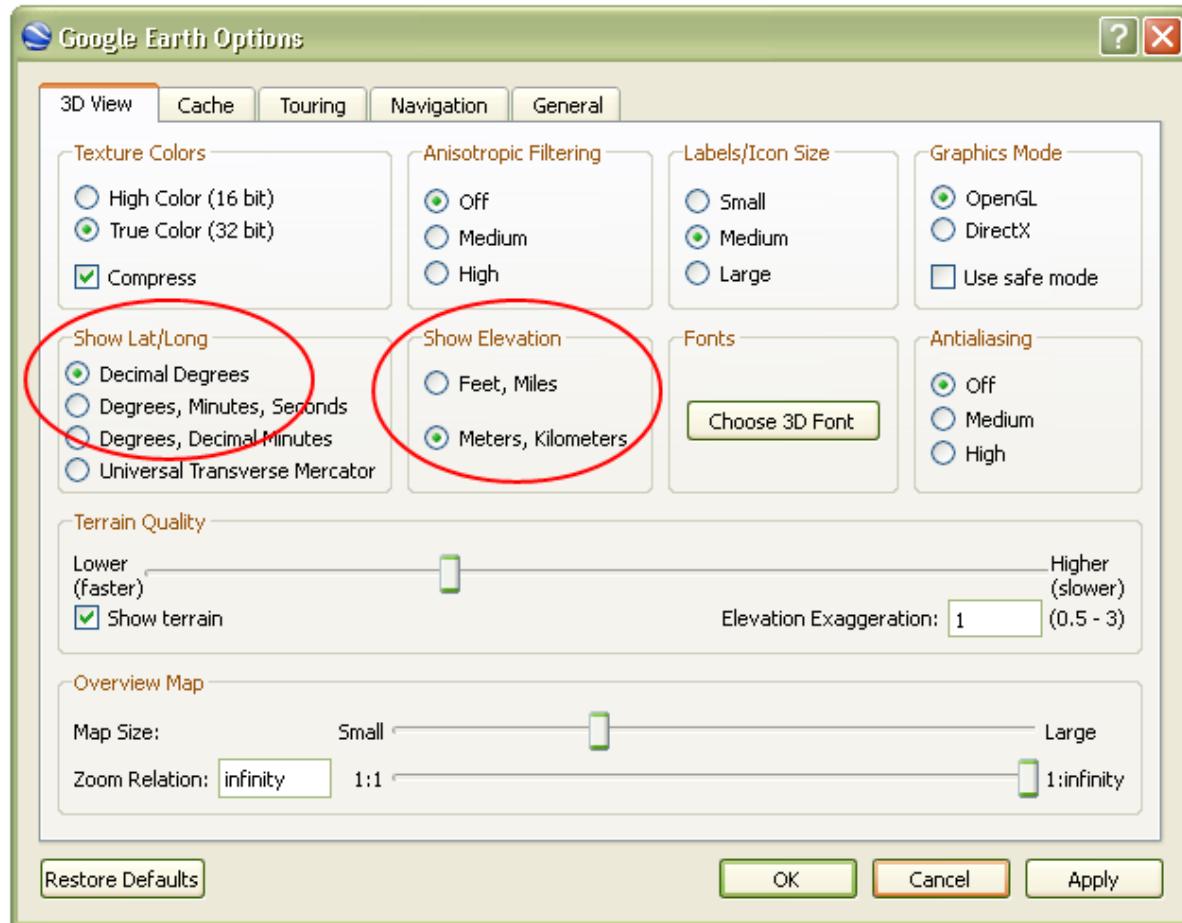


- After the download is completed, install the application on your computer following instructions on the screen.
- Run the application and get into the “Tool” menu then, select “Option” from the drop-down list.

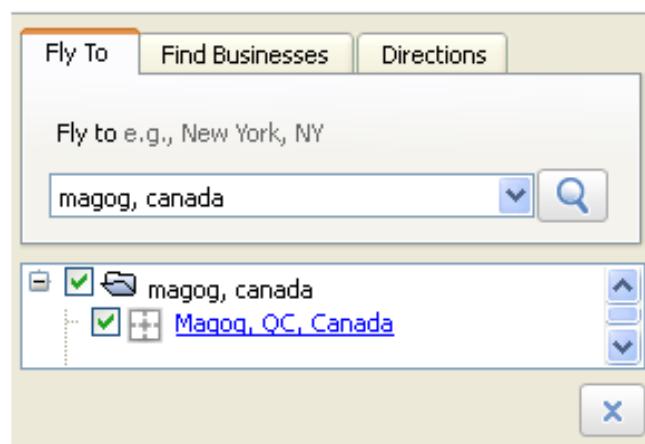
Service Procedures

SP2-Gravity Code Change

- In the "3D View" tab, select "Decimal Degrees" and "Meters, Kilometers" then, click "OK".



- In the "Search" field, enter the information about the location of the final customer (name of the city and the country) then, click the magnifier button to search the location.
- Google Earth will search and display the location in the center of the screen.



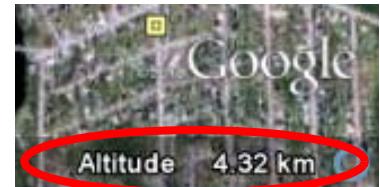
Service Procedures

SP2-Gravity Code Change

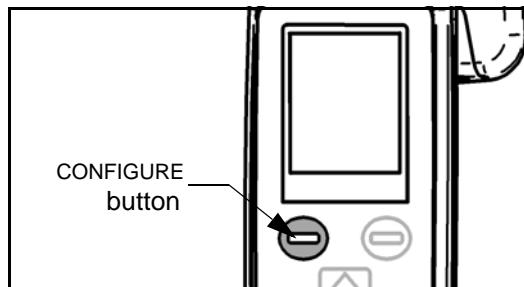
- Adjust the camera altitude by scrolling in or out as needed.
- Position the cursor outside the satellite view window.
- The bottom center of the screen will display the **latitude (lat)**, the longitude (long) and the **elevation (elev)**.



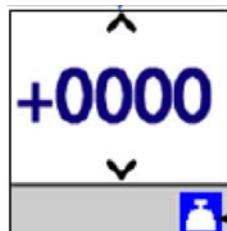
Note: Do not confuse elevation with the “Altitude” mentioned in the right bottom corner. This mention is referring to the camera position.



- When code 99 has been confirmed, the display will show the elevation on the first line, and the latitude on the second line. To configure the elevation and latitude, press the following button:



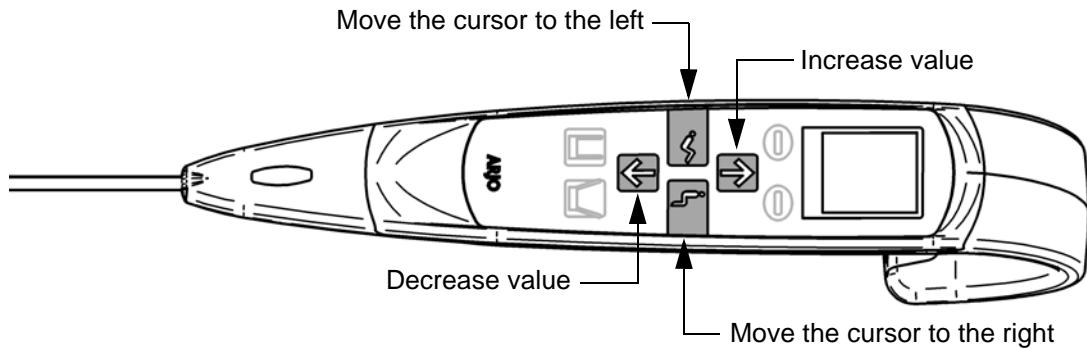
- The display will then show the elevation:



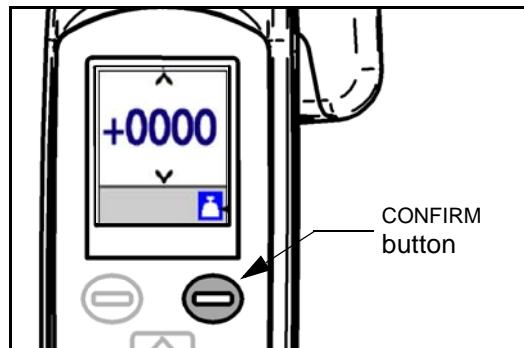
Service Procedures

SP2-Gravity Code Change

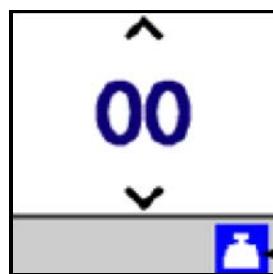
- To modify the elevation, use the following buttons:
(elevation is shown in meters)



- Confirm the elevation by pressing the following button:



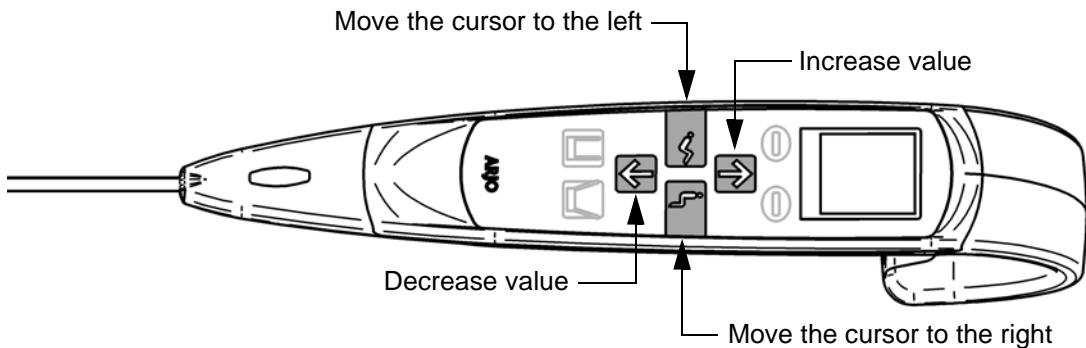
- The display will now display the latitude:



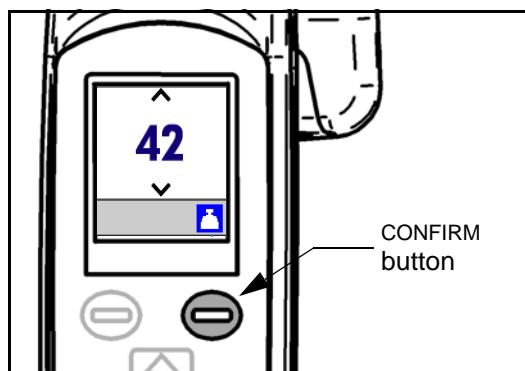
Service Procedures

SP2-Gravity Code Change

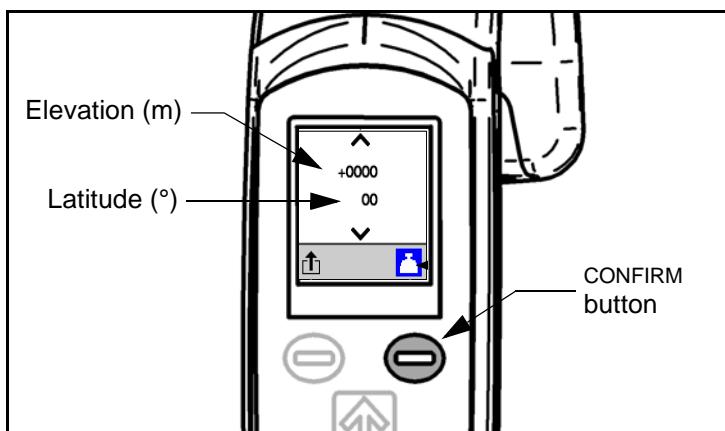
- To modify the latitude, use the following buttons:
(round off degree value)



- Confirm the latitude using the following button:



- The display will show the elevation on the first line, and the latitude on the second line. Confirm the values using the following buttons:



- For code 99, the configuration is complete. WAIT 5 SECONDS, and then shut off the instrument.

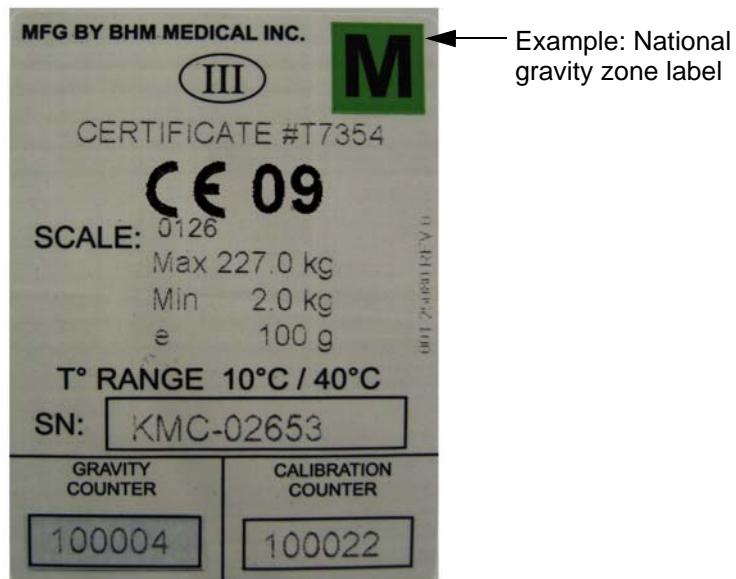
Service Procedures

SP2-Gravity Code Change

Marking

Once the values have been changed, enter the “Scale Counter Menu” to get the value of the Gravity Counter (see “Counter Verification” section). Apply a label corresponding to this value to the CE-Marking label.

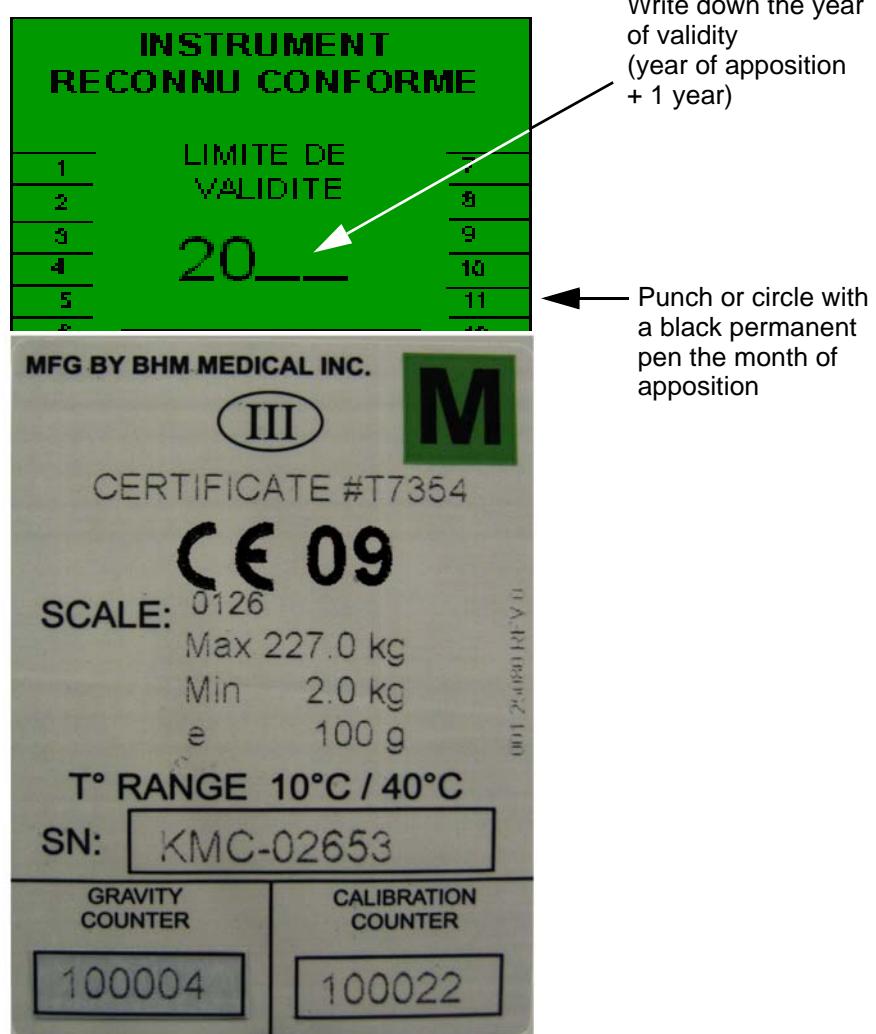
For Austria, Germany, Switzerland and Sweden, apply a new gravity zone label over the scale marking label as specified in the Gravity Adjustment Table on page 17 (if necessary).



Service Procedures

SP2-Gravity Code Change

For France, apply a new label 001.00536 over the scale marking label (if necessary).



NOTE: Have the change verified and approved by a notified body.

Service Procedures

SP2-Gravity Code Change

European Gravity Zone Map

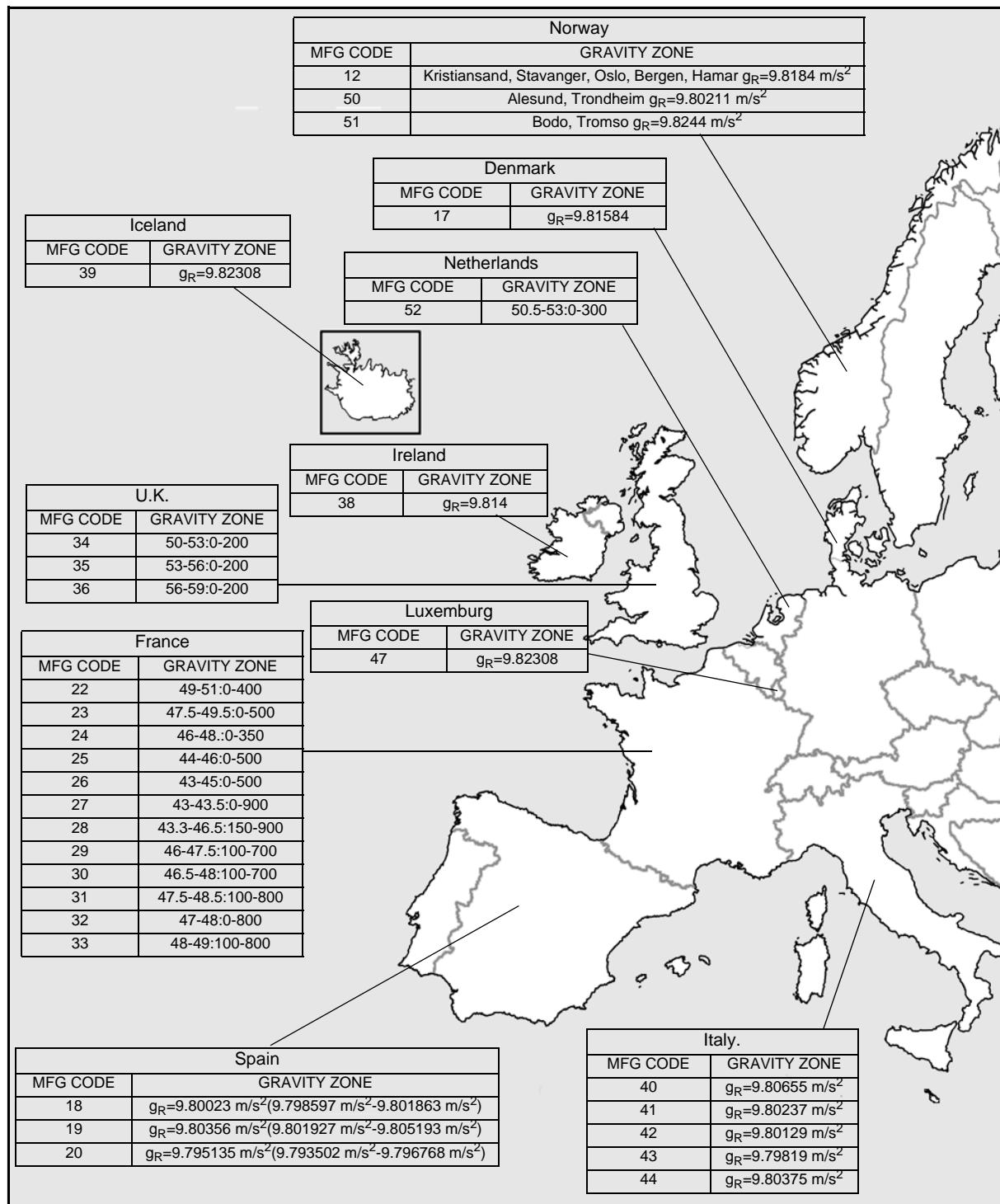


Fig.7

Service Procedures

SP2-Gravity Code Change

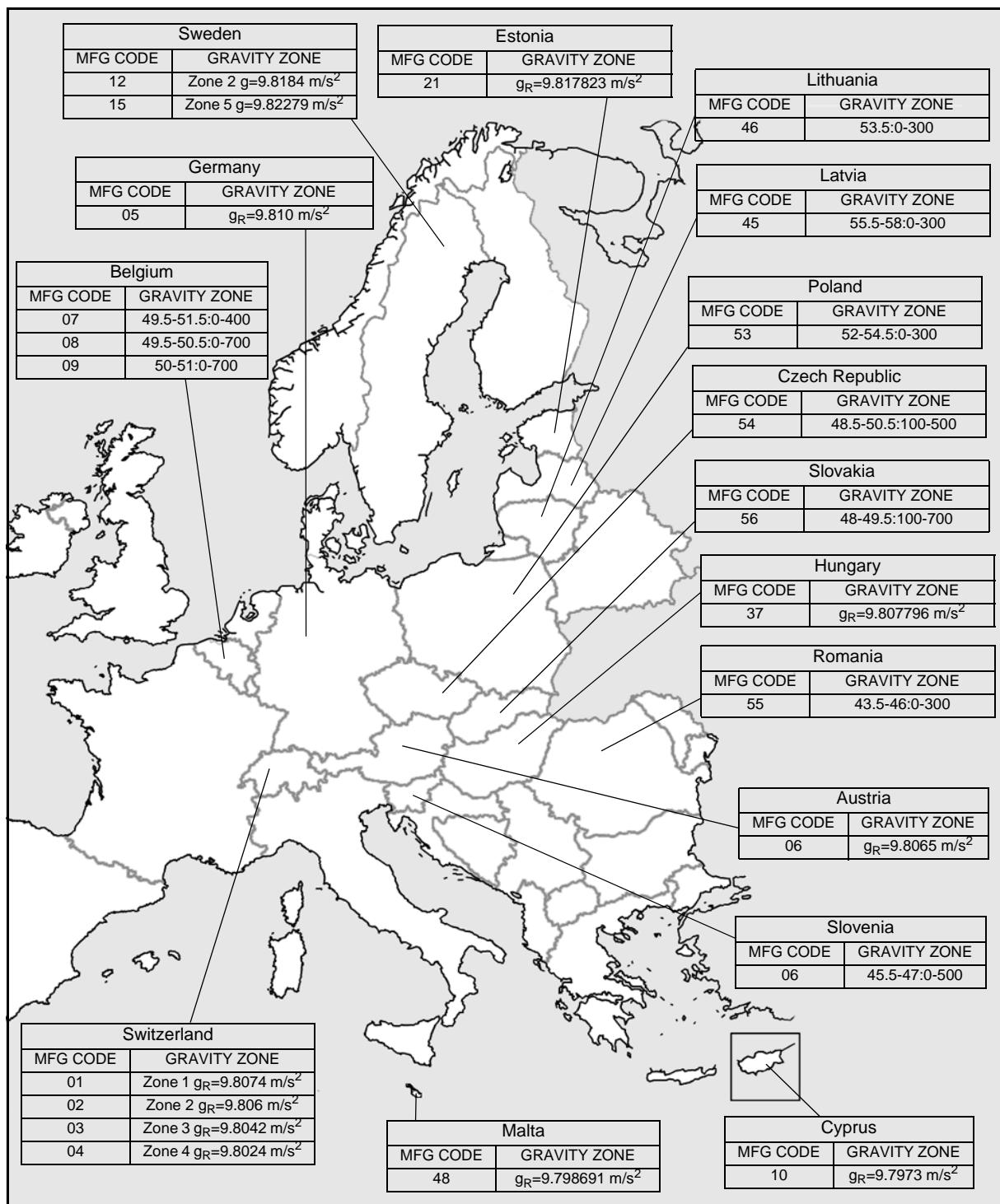


Fig.8

Service Procedures

Gravity Adjustment Table

Gravity Adjustment Table

COUNTRY	POSTAL CODE	GRAVITY CODE	GRAVITY ZONE LABEL (if required)
Austria	N/A	06	001.25076
Belgium	1000 to 3999 / 5000 to 6599 / 7000 to 9999	07	
	6600 to 6999	08	
	4000-4999	09	
Bulgaria	N/A	99	
Canada	J1X 5Y2	00	
Cyprus	N/A	10	
Czech Republic	N/A	54	
Denmark	N/A	17	
Estonia	N/A	21	
Finland	N/A	99	
France	02, 08, 59, 60, 62, 76, 80	22	
	10, 14, 22, 27, 28, 29, 35, 50, 51, 53, 54, 55, 57, 61, 75, 77, 78, 91, 92, 93, 94, 95	23	
	37, 41, 44, 45, 49, 56, 79, 85, 86	24	
	16, 17, 24, 33	25	
	32, 40, 47, 82	26	
	13, 34	27	
	03, 23, 69, 87	28	
	18, 36, 58, 71	29	
	21, 70, 90	30	
	52, 88	31	
	68, 89	32	
	67	33	
	Others	99	
Germany	N/A	05	001.25077
Greece	N/A	99	
Hungary	N/A	37	

Service Procedures

Gravity Adjustment Table

COUNTRY	POSTAL CODE	GRAVITY CODE	GRAVITY ZONE LABEL (if required)
Iceland	N/A	39	
Ireland	N/A	38	
Italy	05,06,10 12 to 63	40	
	00, 01, 02, 03, 04, 64, 65, 66, 67, 70, 71, 72, 73, 74, 80, 81, 82, 83, 84, 86	41	
	07, 08, 09, 75, 85, 87, 88, 89, 90, 91, 98	42	
	92 to 97	43	
	11	44	
Latvia	N/A	45	
Lithuania	N/A	46	
Luxemburg	N/A	47	
Malta	N/A	48	
Netherlands	N/A	52	
Norway	0000 to 5999 6700 to 6999	12	
	6000 to 6699 7000 to 8999	50	
	9000 to 9999	51	
Poland	N/A	53	
Portugal	N/A	99	
Romania	N/A	55	
Slovakia	N/A	56	
Slovenia	N/A	06	
Spain	02, 03, 04, 05, 06, 07, 09, 10, 11, 12, 13, 14, 16, 19, 21, 23, 24, 28, 29, 30, 34, 37, 40, 41, 42, 44, 45, 46, 47, 49	18	
	01, 08, 15, 17, 20, 22, 25, 26, 27, 31, 32, 33, 36, 39, 43, 48, 50	19	
	18, 35, 38	20	
Sweden	00000 to 82999 except for 82046	12	001.25070
	82046 83000 to 99999	15	001.25071

Service Procedures

Gravity Adjustment Table

COUNTRY	POSTAL CODE	GRAVITY CODE	GRAVITY ZONE LABEL (if required)
Switzerland UK (north)	Zone 1 www.metas.ch/SwissGravityZones	01	001.25072
	Zone 2 www.metas.ch/SwissGravityZones	02	001.25073
	Zone 3 www.metas.ch/SwissGravityZones	03	001.25074
	Zone 4 www.metas.ch/SwissGravityZones	04	001.25075
	KY, FK, PA, PH, DD, AB, IV, KW	36	
UK (centre) UK (south)	BB, BD, BL, BT, CA, CH, CW, DG, DH, DL, DN, EH, FY, G, HD, HG, HU, HX, KA, L, LA, LN, LS, M, ML, NE, OL, PR, S, SK, SR, TD, TS, WA, WF, WN, YO	35	
	AL, BA, BH, BN, BR, BS, CB, CF, CM, CO, CR, CT, DA, DE, DT, E, EC, EN, EX, GL, GU, HA, HP, IG, IP, KT, LD, LE, LL, LU, ME, MK, N, NG, NP, NR, NW, OX, PE, PL, PO, RG, RH, RM, SA, SE, SG, SL, SM, SN, SO, SP, SS, SW, SY, TA, TN, TQ, TR, TW, UB, W, WC, WD	34	

*For France, Italy, Spain and the UK, the Postal Code column provides only the first two digits or letters of the entire postal code involved.

Service Procedures

SP3-Scale verification

SP3-Scale verification For Verified Scales

Note: ARJO technicians can perform a verification to check if the scale meets all the needed requirements, but this has no legal value in Europe. Only an authorized notified body can make the verification and provide a mark of approval. However, it is recommended that ARJO technicians perform a verification after the calibration, to be sure the calibration is correct before the notified body performs the final check.

Note: Scale tolerances in service depend on each country. Usually, twice (2x) the permissible error of the initial verification is allowed (Refer to TAN C-32-2008-BE for more information about local regulations).

Note: It is recommended to use certified weights for the scale verification (Class M1 or F).

Note: The notified body inspection might involve more verifications than those listed in this section. The test in this section is intended to give a good indication if the scale will pass a re-verification.

- 1) Attach a spreader and a sling that is suitable to hold the calibration weight to the Maxi Move.
- 2) Press the power button on the Maxi Move to zero the scale.
- 3) Add weight to the sling. It is

recommended that at least five readings from 0 to 225 kg for standard jibs and 0 kg to 130 kg for extended jibs are performed. The five reading must be spread evenly throughout the entire range.

- 4) For each weight, note the value on the display.
- 5) Gradually remove the weight and check the zero value at the end.

Values must be between the following limits:

SCALE VERIFICATION TOLERANCES		
WEIGHT	INITIAL VERIFICATION (1X MPE)	IN SERVICE VERIFICATION (2X MPE)
0 KG	+/-0.025 KG	+/-0.05 KG
2 KG < M ≤ 50 KG	+/-0.05 KG	+/-0.1 KG
50 KG < M ≤ 200 KG	+/-0.1 KG	+/-0.2 KG
200 KG < M ≤ 227 KG	+/-0.15 KG	+/-0.3 KG

Fig.9

If the scale is beyond the tolerance range, it must be recalibrated and re-verified by a notified body (see “Calibration” section).

For Non-Verified Scales

The same procedure can be applied for a non-verified scale. However, if the scale is beyond the tolerance range, it can be recalibrated by an Arjo technician without the involvement of a notified body.

Service Procedures

SP4-Maxi Move Communication Tool

SP4-Maxi Move Communication Tool

Note: This tool is to be used with the Maxi Move produced by BHM Medical in Canada (Model: KMC-*).**

Note: The communication tool is only needed for the *calibration*. For the verification, it's not necessary to use the communication tool.

The tool kit (#700-25330) is a USB-RS485 adapter that allows a computer to communicate with and supply power to the scale (see Fig.10). With this tool kit, you will receive:

- a transport case
- a universal power supply with four different country adapters
- the communication tool with a USB cable (#005-25000)
- a cable to connect the communication tool and the load cell on the Maxi Move
- a sheet of gravity/calibration labels (001-25061), which can be found behind the top foam layer in the case cover.



Fig.10

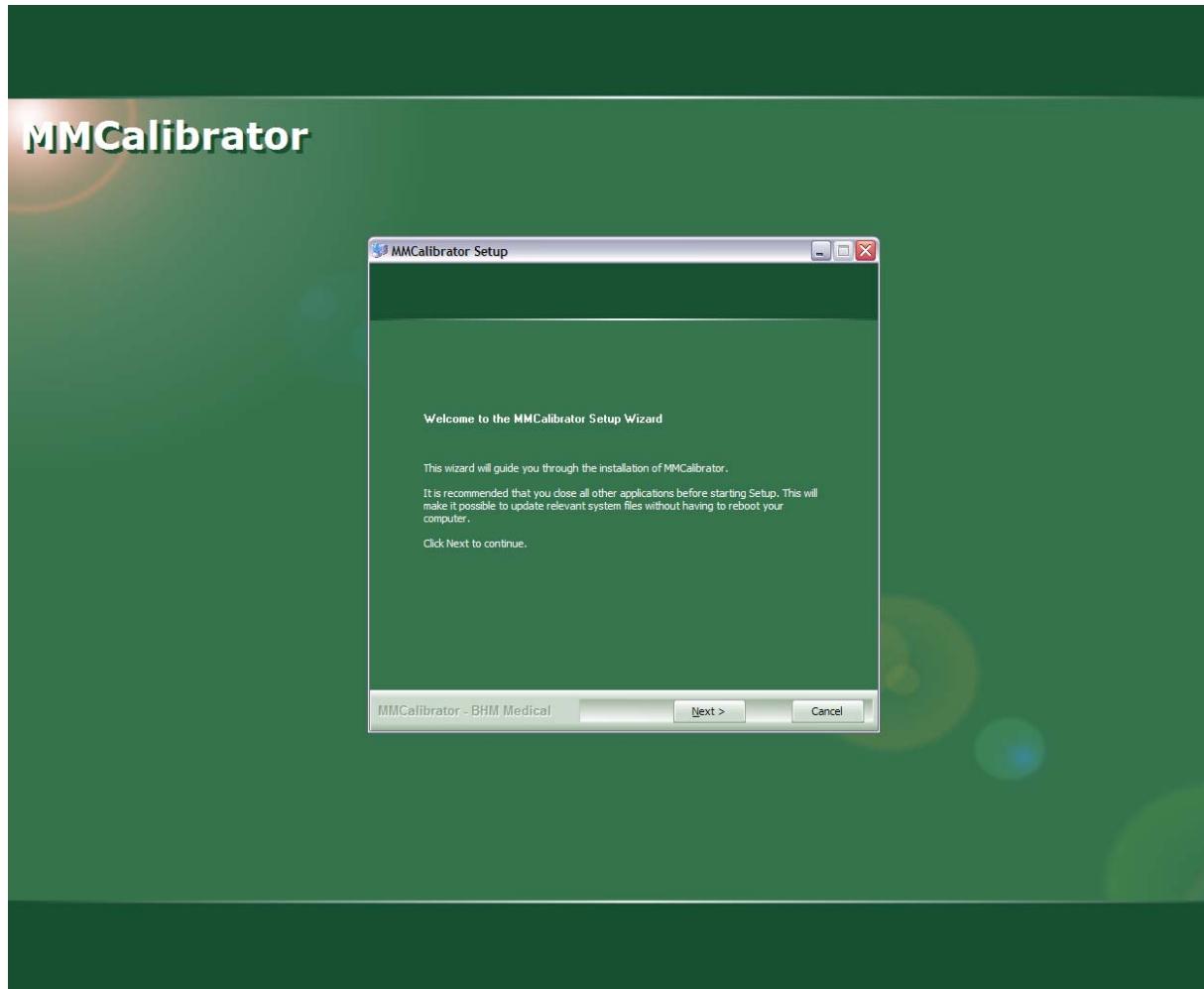
Service Procedures

SP4-Maxi Move Communication Tool

Installing the drivers

To install the application, you must start MMCalibSetup.exe provided on a CD-Rom or via FTP access at: <http://files.bhm-medical.com/misc/MMCalibSetup.exe>

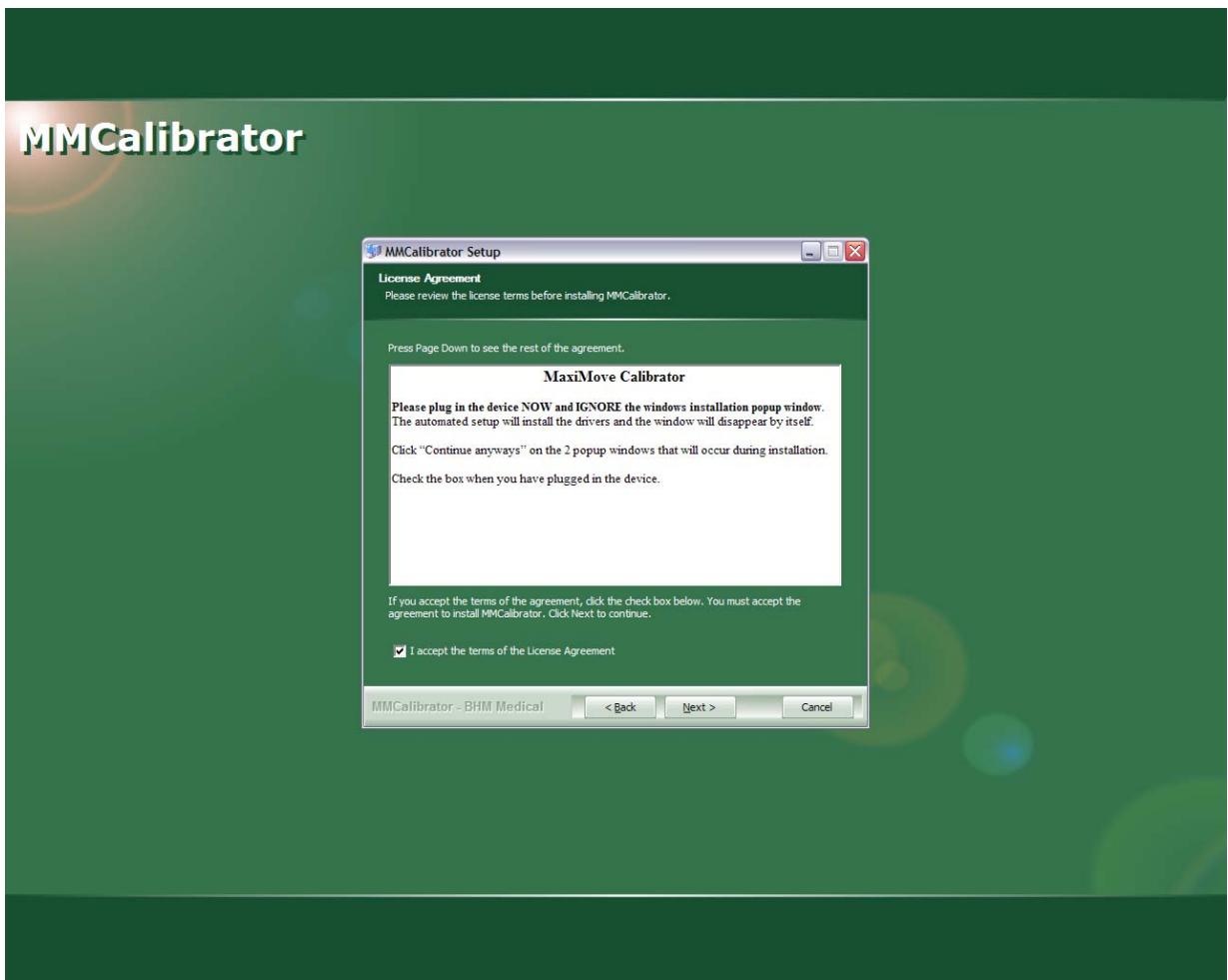
Once started, the following box will appear on the screen:



Service Procedures

SP4-Maxi Move Communication Tool

Click “Next” to get to the following screen:



Once at this screen, plug in your Maxi Move Communication tool and check the “I accept the terms of the Licence Agreement” box before clicking “Next”.

Service Procedures

SP4-Maxi Move Communication Tool

NOTE: If the following screen is displayed next, it is important that you ignore it and continue the installation of MMCalibrator. The screen will disappear once the installation is complete.



Initiate the installation. It may take a while if the Net Framework is not installed. While the installation is proceeding, you may see two pop-ups indicating that a driver is trying to be installed. You MUST click “Continue Anyway” in order to allow the driver to be installed.



Once the installation process is completed, make sure the Maxi Move Communication tool switch is set to OFF before launching the application.

Service Procedures

SP5-Scale Calibration

Note: Prior to the scale calibration, make sure that the gravity code is set according to the area in which its being used.

SP5-Scale Calibration Calibration Material

The load cell on the Maxi Move communicates with an RS-485 protocol. To calibrate the scale, you will need:

- a computer or laptop
- the Maxi Move communication tool (#005-25000)
- a spreader bar and a sling to hold weight
- at least 50 kg of calibrated weight (M1 or F class). We recommended 150 kg for the calibration.

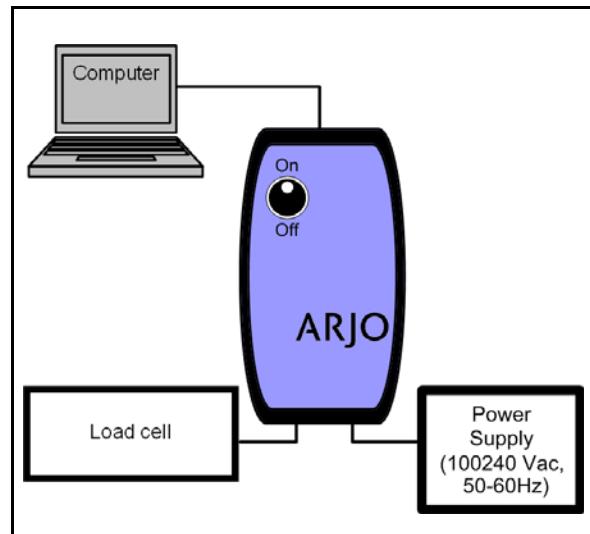


Fig.11

Verified Scale

Note: Recalibrating the scale will void the certification and the scale will need to be verified by an authorized notified body before being put back in service.

- 1) Attach a spreader bar and a sling suitable to hold the calibration weight to the Maxi Move.
- 2) Remove the two bottom screws of the top cover and take off the top cover.
- 3) Disconnect the load cell from the floor lift and connect it directly to the tool kit (see Fig.11 and Fig.12.)



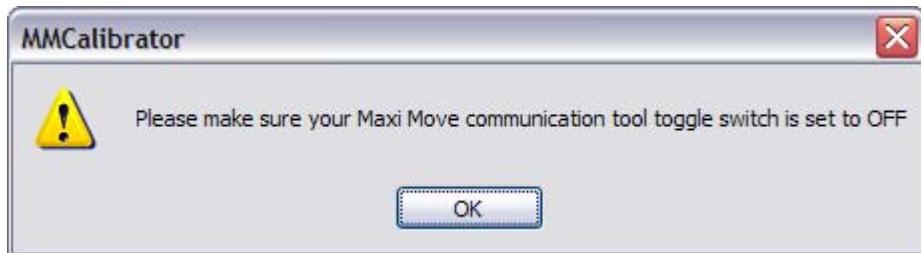
Fig.12

Service Procedures

SP5-Scale Calibration

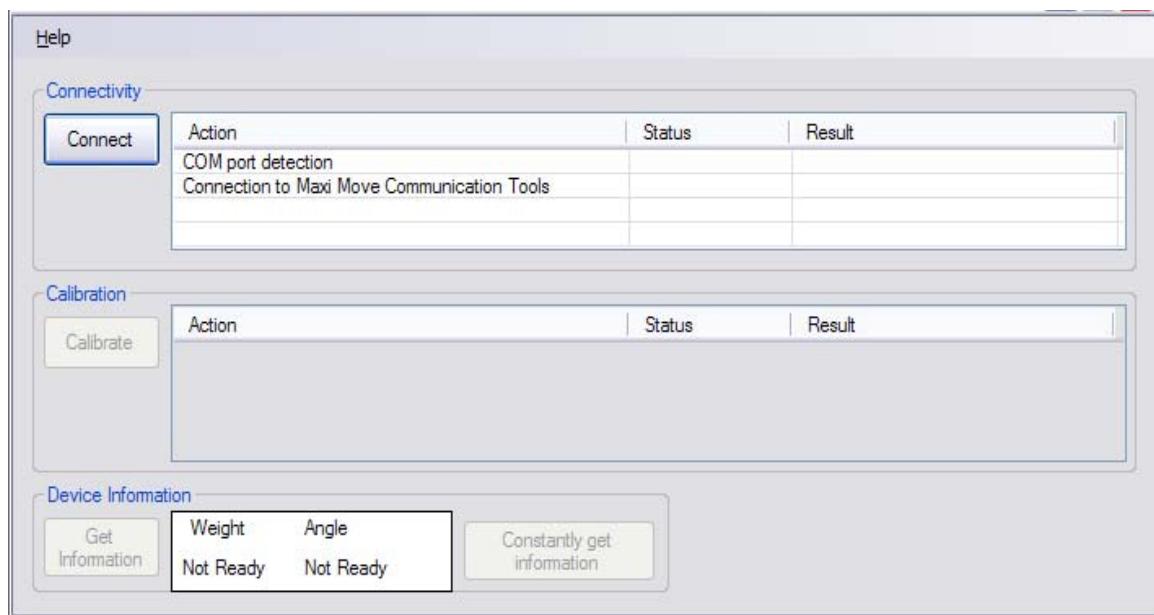
Using the Application

- 4) Launch the application (MMcalibrator.exe). You will get this pop-up:



- 5) Just click OK after making sure your Maxi Move communication tool switch is set to OFF.

The following screen will appear:



- 6) Once ready, click "Connect"

The application will try to find the COM port to which the tool is connected. If not found, the installation was either unsuccessful, or the device was not plugged in correctly.

If the COM port is found, it will try to connect to it and the following message will pop up:

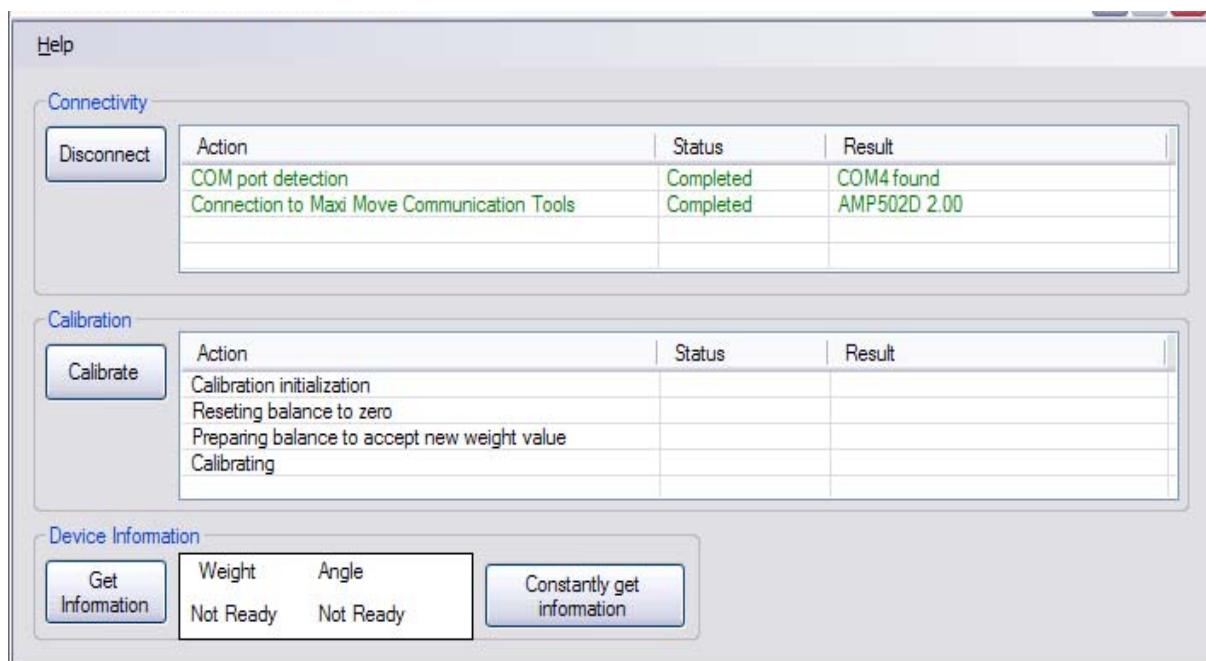
Service Procedures

SP5-Scale Calibration



7) You can now turn the Maxi Move communication tool switch to ON and then click OK. The application will try to communicate with the scale. If successful, the version of the scale firmware will show up as a result. If not, an error has occurred and you will have to restart the connection procedure.

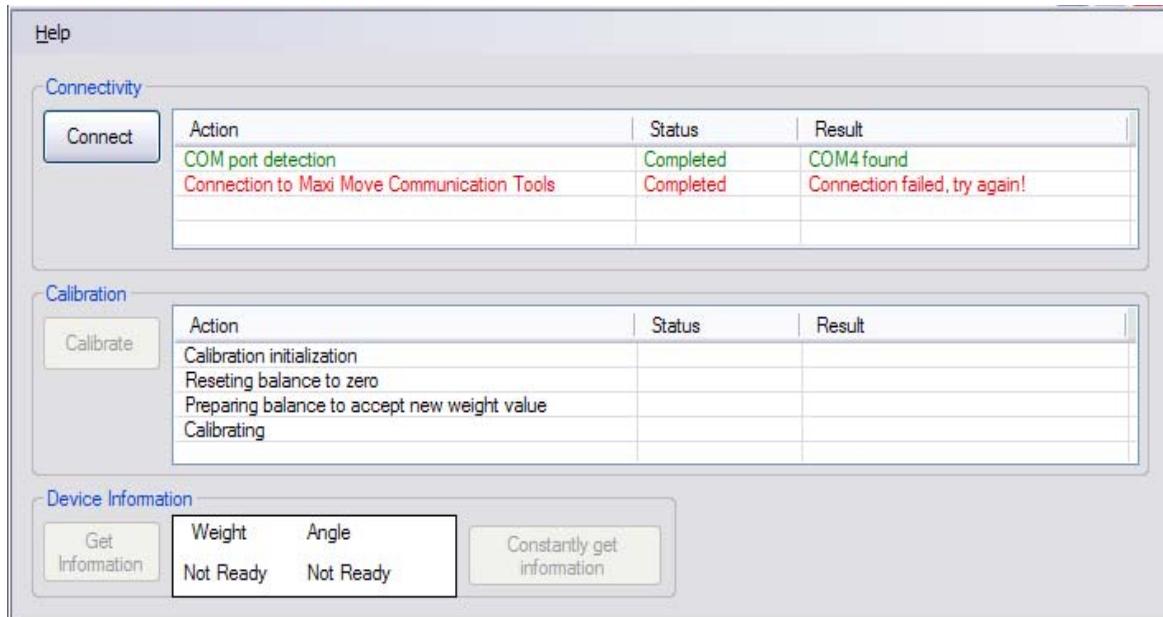
Successful connection:



Service Procedures

SP5-Scale Calibration

Failed connection:



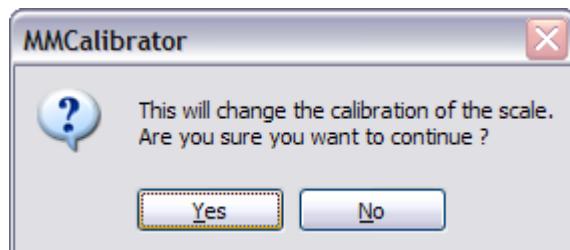
Once successfully connected, the “Calibrate”, “Get information” and “Constantly get information buttons” will become available:

Get Information: Gets the current weight and angle of the scale.

Constantly get information: Same as “Get Information”, but information is updated each second for the weight, and each 5 seconds for the angle. You must click the button again to stop getting information and to be able to perform other actions.

Calibrate: This will calibrate the scale. The steps involved in calibrating the scale are as follows:

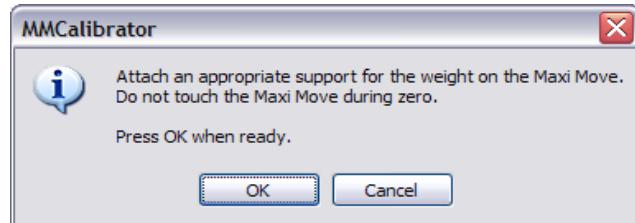
- 8) Click the “Calibrate” button.
- 9) Click “Yes” to confirm the calibration process.



Service Procedures

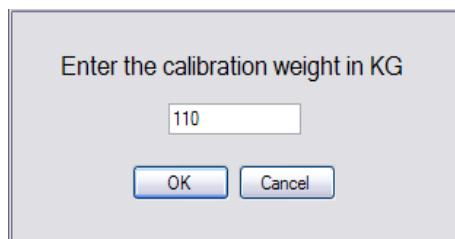
SP5-Scale Calibration

- 10) Click “Ok” to start the zero command



Wait about 6 seconds for the command to be sent.

- 11) Enter the calibration weight in KG in the following box. Click OK.



- 12) Install the weight specified in the support on the unit and click “Ok”



- 13) You will receive a confirmation message that the scale is correctly calibrated.



The calibration is now complete.

If anything goes wrong in the calibration, an error message will pop up and the whole connection process will need to be restarted. If you fail to calibrate more than 4-5 times, it is likely that there is a problem with the connection or the commands.

Service Procedures

SP5-Scale Calibration

- 14) Turn off the power supply switch on the communication tool.
- 15) Disconnect the load cell from the power supply, connect it back to the hoist and reinstall the top cover (make sure that no components create any mechanical interference between the load cell and any part of the hoist). Replace the two screws on the cover.
- 16) Remove all weight from the sling and press the power button to turn the unit on.
- 17) Verify the calibration (see “SP3 - Scale Verification” section).
- 18) If the calibration is beyond the tolerance range, repeat the calibration procedure starting from step 1.
- 19) If calibration is correct, enter the Counter menu (see “SP1 - Counter Verification” section) and note the *calibration counter* value. Apply a new calibration label on the scale marking label with the corresponding value.

The scale must be verified by an authorized notified body before being put back in service (for European Community only).

Service Procedures

SP6-Scale Replacement

SP6-Scale Replacement

If the scale needs to be replaced, follow the instructions in the *Maxi Move Maintenance and Repair Manual*, under the “SP19 - Scale Removal Installation” section for the mechanical installation procedure.

Verified Scale

After the installation, set the correct gravity code for your location (see “SP2 - Gravity Code Change” procedure). Be sure to apply the appropriate gravity label.

Perform a scale verification (see SP4). If the calibration is within the correct tolerance range, enter the counter menu (see “SP1 - Counter Verification” procedure) and note the value of the calibration counter. Apply a new calibration label with the corresponding value.

If the calibration is beyond the expected tolerance range, perform a new calibration (see “SP5 - Scale Calibration Procedure”).

The unit can now be verified by an authorized notified body before reintroducing it back into service.

Non-Verified Scale

Although it is not mandatory, it is recommended to perform a scale verification and calibration if the scale is beyond the correct tolerance range.

Service Procedures

SP7 - Scale Installation on a Non-Scale

SP7 - Scale Installation on a Non-Scale Unit

The installation of a scale on a non-scale unit (KMX*X*) is similar to the scale replacement procedure, but with some extra steps for the certification.

Ordering Kits

Prior to installing the scale, the correct kit must be ordered. The service kit needed depends on the Maxi Move model and the user's location:

MAXI MOVE MODEL	SERVICE KIT NUMBER	SERVICE KIT DESCRIPTION
KMC*XN in a non-CE country	700-25340	Maxi Move standard jib (non-CE) scale kit upgrade
KMC*XN in a CE country	700-25335	Maxi Move standard jib (CE) scale kit upgrade
KMC*XE in a CE country	700-25350	Maxi Move extended jib (CE) scale kit upgrade

Note: You will need to provide the serial number of the unit being upgraded when ordering the required kit.

Note: The main board will automatically detect the addition of the scale. However, the DIP switch settings must be set according to those found in the *Maxi Move Maintenance and Repair Manual*, under service procedure 10.

Verified Scale (CE Country)

Follow the instructions in the *Maxi Move Maintenance and Repair Manual* under the "SP19-'Scale Removal/Installation" section for the mechanical installation procedure for

the scale.

Once the scale has been installed:

- 1) With the marker supplied in the kit, write the serial number of the Maxi Move on the scale marking label (in the box next to the letters "SN:", as shown in Fig.13).

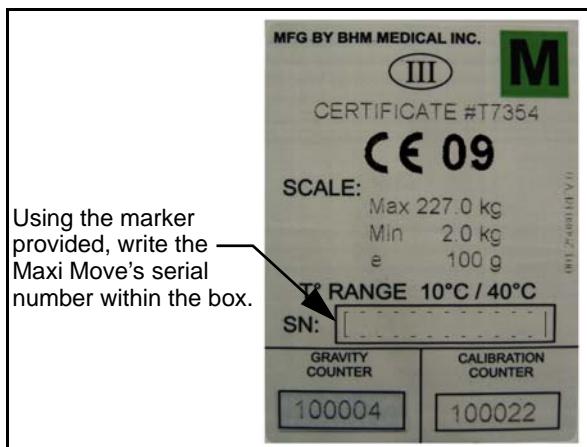


Fig.13

Apply the scale marking label on the control box, above the handset connection (see , callout 1). Remove the clear plastic laminate backing and carefully apply it over the scale marking label.

Note: Use ONLY the permanent marker supplied in the kit to ensure that what is written down will not be later erased by the use of cleaning products on the unit.

- 2) Apply the scale handset label on the handset (see , callout 2).
- 3) Apply the scale logo to the Maxi Move top cover (see , callout 3).
- 4) Replace the model label with the one supplied in the upgrade kit. Note: In kit 700-25335, two different label models are supplied (for KMCSXN and KMCLXN). Use the label corresponding to the model of the unit being upgraded and discard the

Service Procedures

SP7 - Scale Installation on a Non-Scale Unit

other (see , callout 4). Also note that in kit #700-25350, only one label is supplied (KMCSXE).

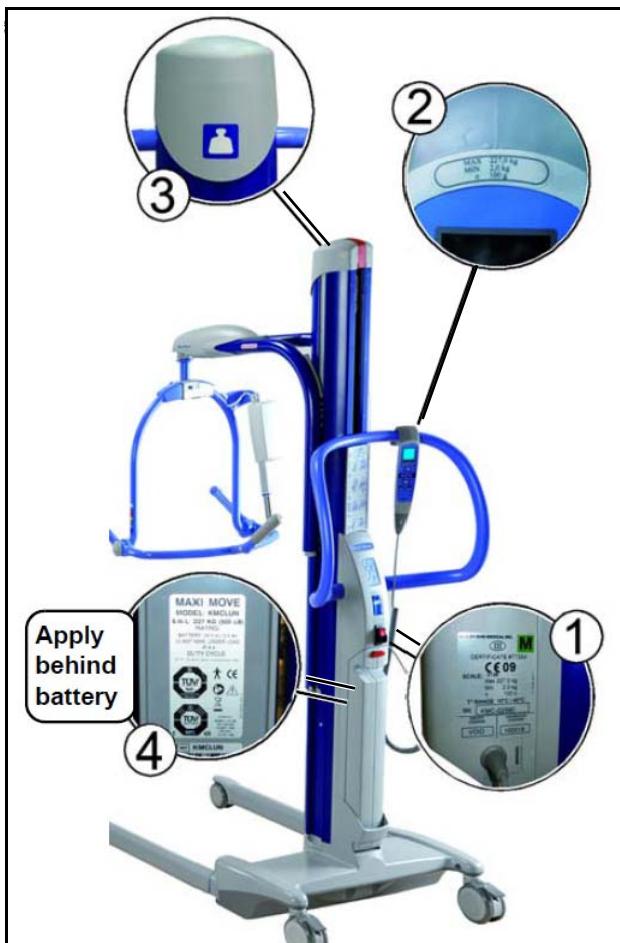


Fig.14

Note: The marking on the label may be slightly different from what is displayed in

Set the correct gravity code for the location (see “SP2 - Gravity Code Change” section). Be sure to apply the appropriate gravity label. In some countries, special gravity zone labels may be required (see page 13).

Perform a scale verification (see “SP4- Scale Calibration”). If the calibration is within the

expected tolerances, enter the counter menu on the handset (see “SP1 - Verification of the Counter” section) and note the calibration counter value. Apply a new calibration label on the scale marking label with the corresponding value.

If the calibration is beyond the tolerance range, perform a new calibration (see “SP4 - Scale Calibration”).

Since this is the first time this unit will be verified with a scale, it is considered as a new unit and must pass through a complete EC-verification by an authorized notified body. This certifies that the load cell was installed correctly and complies with the previous type approval issue for the Maxi Move scale.

If the unit passes the EC-verification, the notified body will emit a “certificate of conformity.” This document must remain in Arjo’s possession.

Note: A blank certificate of conformity form is included with the upgrade kit. Some notified bodies prefer using their own forms.

The CE declaration and the metrological log book must be left with the customer.

Following the EC-verification by the notified body, the product can be put into service.

Non-Verified Scale (Outside the European Community)

Follow the instructions in the *Maxi Move Maintenance and Repair Manual* under “SP19 - Scale Removal and Installation” section for the mechanical procedure for the scale.

Perform the scale verification (see SP4). If the calibration is beyond the expected tolerances, perform a new calibration (see SP4).

Service Procedures

SP7 - Scale Installation on a Non-Scale

Once the calibration is correct:

- 1) Apply the scale label on the back plate (see Fig.15, callout 1).
- 2) Apply the scale handset label on the handset (see Fig.15, callout 2).
- 3) Apply the scale logo to the Maxi Move top cover (see Fig.15, callout 3).
- 4) Replace the model label with the one supplied in the upgrade kit. Note: In kit 700-25340, two different label models are supplied (for KMCSXN and KMCLXN). Use the label corresponding to the model of the unit being upgraded and discard the other (see Fig.15, callout 4).

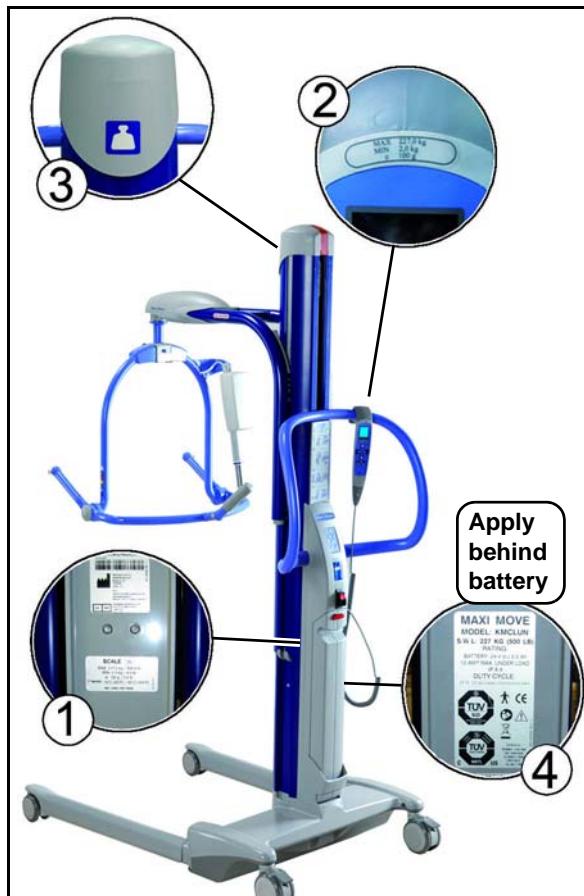


Fig.15

AUSTRALIA

ArjoHuntleigh Pty Ltd
78, Forsyth street
O'Connor
AU-6163 Western Australia
Tel: +61 89337 4111
Free: +1 800 072 040
Fax: + 61 89337 9077

BELGIQUE / BELGIË

ArjoHuntleigh NV/SA
Evenbroekveld 16
BE-9420 ERPE-MERE
Tél/Tel: +32 (0) 53 60 73 80
Fax: +32 (0) 53 60 73 81
E-mail: info@arjohuntleigh.be

BRASIL

Maquet do Brasil Equipamentos Médicos Ltda
Rua Tenente Alberto Spicciati, 200
Barra Funda, 01140-130
SÃO PAULO, SP - BRASIL
Fone: +55 (11) 2608-7400
Fax: +55 (11) 2608-7410

CANADA

ArjoHuntleigh
90 Matheson Boulevard West
Suite 300
CA-MISSISSAUGA, ON, L5R 3R3
Tel/Tél: +1 905 238 7880
Free: +1 800 665 4831 Institutional
Free: +1 800 868 0441 Home Care
Fax: +1 905 238 7881
E-mail: info.canada@arjohuntleigh.com

ČESKÁ REPUBLIKA

ArjoHuntleigh s.r.o.
Hlinky 118
CZ-603 00 BRNO
Tel: +420 549 254 252
Fax: +420 541 213 550

DANMARK

ArjoHuntleigh A/S
Vassingerødvej 52
DK-3540 LYNGE
Tel: +45 49 13 84 86
Fax: +45 49 13 84 87
E-mail: info.dk@arjohuntleigh.com

DEUTSCHLAND

ArjoHuntleigh GmbH
Peter-Sander-Strasse 10
DE-55252 MAINZ-KASTEL
Tel: +49 (0) 6134 186 0
Fax: +49 (0) 6134 186 160
E-mail: info-de@arjohuntleigh.com

ΕΛΛΑΣ

C. Psimitis Co Ltd
Dimitriou Andr. 59
GR-16121 KAISARIANI ATTIKIS
Τηλ: 21 0724 36 68
Φάξ: 21 0721 55 53

ESPAÑA

ArjoHuntleigh Ibérica S.L.
Ctra. de Rubí, 88 1^a planta - A1
08173 Sant Cugat del Vallés
ES- BARCELONA 08173
Tel: +34 93 583 11 20
Fax: +34 93 583 11 22
E-mail: info.es@arjohuntleigh.com

FRANCE

ArjoHuntleigh SAS
2 Avenue Alcide de Gasperi
CS 70133
FR-59436 RONCQ CEDEX
Tél: +33 (0) 3 20 28 13 13
Fax: +33 (0) 3 20 28 13 14
E-mail : info.france@arjohuntleigh.com

HONG KONG

ArjoHuntleigh (Hong Kong) Ltd
1510-17, 15/F, Tower 2
Kowloon Commerce Centre
51 Kwai Cheong Road
Kwai Chung
HONG KONG
Tel: +852 2207 6363
Fax: +852 2207 6368

INTERNATIONAL

ArjoHuntleigh International Ltd.
ArjoHuntleigh House
Houghton Hall Park
Houghton Regis
UK-DUNSTABLE LU5 5XF
Tel: +44 (0) 1582 745 800
Fax: +44 (0) 1582 745 866
E-mail:
international@ArjoHuntleigh.com

ITALIA

ArjoHuntleigh S.p.A.
Via di Tor Vergata 432
IT-00133 ROMA
Tel: +39 (0) 6 87426211
Fax: +39 (0) 6 87426222
E-mail: Italy.promo@arjohuntleigh.com

NEDERLAND

ArjoHuntleigh Nederland BV
Biezenwei 21
4004 MB TIEL
Postbus 6116
4000 HC TIEL
Tel: +31 (0) 344 64 08 00
Fax: +31 (0) 344 64 08 85
E-mail: info.nl@arjohuntleigh.com

NEW ZEALAND

ArjoHuntleigh Ltd
41 Vestey Drive
Mount Wellington
NZ-AUCKLAND 1060
Tel: +64 (0) 9 573 5344
Free Call: 0800 000 151
Fax: +64 (0) 9 573 5384
E-mail: nz.info@ArjoHuntleigh.com

NORGE

ArjoHuntleigh Norway AS
Olaf Helsets vei 5
NO-0694 OSLO
Tel: +47 22 08 00 50
Faks: +47 22 57 06 52
E-mail: no.kundeservice@arjohuntleigh.com

ÖSTERREICH

ArjoHuntleigh GmbH
Dörstrasse 85
AT-6020 INNSBRUCK
Tel: +43 (0) 512 204 160 0
Fax: +43 (0) 512 204 160 75

POLSKA

ArjoHuntleigh Polska Sp. z o.o.
ul. Ks Piotra Wawrzyniaka 2
PL-62-052 KOMORNIKI (Poznan)
Tel: +48 61 662 15 50
Fax: +48 61 662 15 90
E-mail: arjo@arjohuntleigh.com

PORTUGAL

ArjoHuntleigh em Portugal:
MAQUET Portugal, Lda. (Distribuidor Exclusivo)
Rua Poeta Bocage n.º 2 - 2G
PT-1600-233 Lisboa
Tel: +351 214 189 815
Fax: +351 214 177 413
E-mail: Portugal@arjohuntleigh.com

SUISSE / SCHWEIZ

ArjoHuntleigh AG
Fabrikstrasse 8
Postfach
CH-4614 HÄGENDORF
Tél/Tel: +41 (0) 61 337 97 77
Fax: +41 (0) 61 311 97 42

SUOMI

Oy Vestek AB
Martinkuja 4
FI-02270 ESPOO
Puh: +358 9 8870 120
E-mail: info@vestek.fi

SVERIGE

ARJO Scandinavia AB
Verkstadsvägen 5
Box 61
SE-241 21 ESLÖV
Tel: +46 (0) 10-494 7760
Fax: +46 (0) 413-138 76
E-mail: kundservice@arjohuntleigh.com

UNITED KINGDOM

ArjoHuntleigh UK
ArjoHuntleigh House
Houghton Hall Park
Houghton Regis
UK-DUNSTABLE LU5 5XF
Tel: +44 (0) 1582 745 700
Fax: +44 (0) 1582 745 745
E-mail:
sales.admin@ArjoHuntleigh.com

USA

ArjoHuntleigh Inc.
2349 W Lake Street Suite 250
US-Addison, IL 60101
Tel: +1 630 307 2756
Free: +1 800 323 1245 Institutional
Free: +1 800 868 0441 Home Care
Fax: +1 630 307 6195
E-mail: us.info@ArjoHuntleigh.com

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www.ArjoHuntleigh.com

 **ArjoHuntleigh AB**
Hans Michelsensgatan 10
211 20 Malmö
SWEDEN